

Title (en)
MANUFACTURED PRODUCT USING AND COLLAGEN SOLUTION MANUFACTURING METHOD AND COLLAGEN SEPARATION METHOD OF ANIMAL TISSUE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KOLLAGENLÖSUNG UND VERWENDUNG VON HERGESTELLTEM PRODUKT SOWIE KOLLAGEN-TRENNUNGSVERFAHREN FÜR TIERGEWEBE

Title (fr)
PROCEDE DE SEPARATION DE COLLAGENE DE TISSU ANIMAL, PROCEDE DE FABRICATION DE SOLUTION DE COLLAGENE ET PRODUIT MANUFACTURE UTILISANT UN TEL PROCEDE

Publication
EP 1856272 A4 20090422 (EN)

Application
EP 06716299 A 20060309

Priority
• KR 2006000849 W 20060309
• KR 20050020367 A 20050311

Abstract (en)
[origin: WO2006096027A1] A method for separation of collagen from various animal tissues, a method for preparing a collagen solution and a product manufactured using the same are disclosed. For this purpose, the present invention provides a method for preparing a collagen solution from an animal tissue, comprising, upon final treatment of collagen: treating a collagen solution having a predetermined concentration under a neutral condition at a low temperature, followed by overnight treatment at a temperature of 30 to 35 °C; concentrating collagen by centrifugation; and dissolving the thus-concentrated collagen in refrigerated weakly-acidic solvent or phosphate buffered saline (PBS), thereby preparing collagen having a concentration of 1 to 5 mg/mL. The present invention, as constituted above, enables realization of a method for efficient separation of collagen from animal bone and cartilage tissues, skin tissues and tendon/ligament tissues, a method for preparing a collagen solution from such isolated tissues, and a matrix and highly-concentrated collagen solution product using the same.

IPC 8 full level
C07K 14/78 (2006.01)

CPC (source: EP KR US)
C07K 14/78 (2013.01 - EP US); **C12P 21/00** (2013.01 - KR)

Citation (search report)
• [X] BATGE B ET AL: "A CRITICAL CROSSLINK REGION IN HUMAN-BONE DERIVED COLLAGEN TYPE I SPECIFIC CLEAVAGE SITE AT RESIDUE LEU95", EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 191, no. 1, 1990, pages 153 - 160, XP002517871, ISSN: 0014-2956
• [X] NOTBOHM HOLGER ET AL: "Comparative study on the thermostability of collagen I of skin and bone: Influence of posttranslational hydroxylation of prolyl and lysyl residues", JOURNAL OF PROTEIN CHEMISTRY, vol. 11, no. 6, 1992, pages 635 - 643, XP009113275, ISSN: 0277-8033
• See references of WO 2006096027A1

Cited by
JP2019518078A; US11439727B2

Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (publication)
WO 2006096027 A1 20060914; CN 101213308 A 20080702; CN 101213308 B 20111221; CY 1114710 T1 20161005; DK 1856272 T3 20131209; EP 1856272 A1 20071121; EP 1856272 A4 20090422; EP 1856272 B1 20130911; ES 2439445 T3 20140123; HR P20131129 T1 20131220; KR 100676285 B1 20070130; PL 1856272 T3 20140228; PT 1856272 E 20131217; RS 53066 B 20140430; SI 1856272 T1 20140131; US 2008118947 A1 20080522; US 7781158 B2 20100824

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